# RAW SEQUENCE LISTING ERROR REPORT
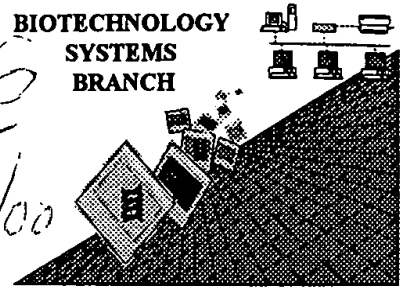
The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 09/214,371

Art Unit / Team No. : 1635

Date Processed by STIC: 12/21/99

## THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,

2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

MARK SPENCER 703-308-4212

# Raw Sequence Listing Error Summary

**ERROR DETECTED** **SUGGESTED CORRECTION** SERIAL NUMBER: _09/2/4 37/_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics
The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

2 _____ Wrapped Aminos
The amino acid number/text at the end of each line "wrapped " down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

3 _____ Incorrect Line Length
The rules require that a line not exceed 72 characters in length. This includes spaces.

4 _____ Misaligned Amino Acid Numbering
The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
between the numbering. It is recommended to delete any tabs and use spacing between the numbers.

5 _____ Non-ASCII
This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.

6 _____ Variable Length
Sequence(s) _____ contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.

7 _____ PatentIn ver. 2.0 "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) _____. Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence.

8 _____ Skipped Sequences (OLD RULES)
Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
**This sequence is intentionally skipped**

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).

9 _____ Skipped Sequences (NEW RULES)
Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

10 _____ Use of n's or Xaa's (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

11 _____ Use of <213>Organism (NEW RULES)
Sequence(s) _____ are missing this mandatory field or its response.

12 _____ Use of <220>Feature (NEW RULES)
Sequence(s) _____ are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
**Please explain source of genetic material In <220> to <223> section.**
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32)    (Sec. 1.823 of new Rules)

13 _____ PatentIn ver. 2.0 "bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

AKS-Biotechnology Systems Branch- 5/15/99

*see p.s, 1-3*

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┌────────────────────────────────────────────────────────┐
│  This Raw Listing contains the General Information       │
│  Section and up to first 5 pages.                        │
└────────────────────────────────────────────────────────┘
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 1    <110> APPLICANT: Lane, David
 2          Bottger, Volker                  Does Not Comply
 3          Bottger, Angelica          Corrected Diskette Needed
 4          Picksley, Stephen
 5          Chene, Patrick
 6          Hochkeppel, Heinz-Kurt
 7          Garcia-Echeverria, Carlos
 8          Furet, Pascal
 9    <120> TITLE OF INVENTION: Inhibitors of the Interaction of P53 and MDM2
10    <130> FILE REFERENCE: 4-20937/A/PCT
11    <140> CURRENT APPLICATION NUMBER: US/09/214,371
12    <141> CURRENT FILING DATE: 1999-03-26
13    <150> EARLIER APPLICATION NUMBER: PCT/EP97/03549
14    <151> EARLIER FILING DATE: 1997-07-04
15    <160> NUMBER OF SEQ ID NOS: 83
16    <170> SOFTWARE: PatentIn Ver. 2.0
17    <210> SEQ ID NO 1
18    <211> LENGTH: 19
19    <212> TYPE: PRT
20    <213> ORGANISM: Artificial Sequence
21    <220> FEATURE:
22    <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
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24          Pro Leu Ser Gln Gln Thr Phe Ser Asp Leu Trp Lys Leu Leu Pro Glu
25           1               5                  10                  15
26          Asn Asn Val
27    <210> SEQ ID NO 2
28    <211> LENGTH: 5
29    <212> TYPE: PRT
30    <213> ORGANISM: Artificial Sequence
31    <220> FEATURE:
32    <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
33    <400> SEQUENCE: 2
34          Phe Xaa Xaa Leu Trp              see item 10 on Exam Summary Sheet
35           1           5
36    <210> SEQ ID NO 3
37    <211> LENGTH: 10
38    <212> TYPE: PRT
39    <213> ORGANISM: Artificial Sequence
40    <220> FEATURE:
41    <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
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43    <221> NAME/KEY: VARIANT
44    <222> LOCATION: (1)
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W-->

Input Set: **I214371.RAW**

*[handwritten: ? Pro is at position 1]*

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45   <223> OTHER INFORMATION: X at position1 proline, leucine, glutamic acid,
46         cysteine or glutamine
47   <220> FEATURE:
48   <221> NAME/KEY: VARIANT
49   <222> LOCATION: (5)
50   <223> OTHER INFORMATION: X at position 5 = arginine, histidine, glutamic
51         acid, cysteine, serine or preferably aspartic
52         acid.
53   <400> SEQUENCE: 3
54         Pro Xaa Phe Xaa Asp Thr Trp Xaa Xaa Leu
55          1                5                  10
56   <210> SEQ ID NO 4
57   <211> LENGTH: 10
58   <212> TYPE: PRT
59   <213> ORGANISM: Artificial Sequence
60   <220> FEATURE:
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62   <220> FEATURE:
63   <221> NAME/KEY: VARIANT
64   <222> LOCATION: (1)..)
65   <223> OTHER INFORMATION: x=proline, leucine, glutamic acid, cysteine or
66         glutamine
67   <220> FEATURE:
68   <221> NAME/KEY: VARIANT
69   <222> LOCATION: (5)
70   <223> OTHER INFORMATION: x = arginine, histidine, glutamic acid, cysteine,
71         serine or preferably aspartic acid.
72   <220> FEATURE:
73   <221> NAME/KEY: VARIANT
74   <222> LOCATION: (6)
75   <223> OTHER INFORMATION: x = histidine, phenylalanine, or preferably
76         tyrosine
77   <220> FEATURE:
78   <221> NAME/KEY: VARIANT
79   <222> LOCATION: (10)
80   <223> OTHER INFORMATION: X = phenylalanine, glutamine or preferably
81         leucine.
82   <400> SEQUENCE: 4
83         Xaa Xaa Phe Xaa Xaa Xaa Trp Xaa Xaa Xaa
84          1                5                  10
85   <210> SEQ ID NO 5
86   <211> LENGTH: 10
87   <212> TYPE: PRT
88   <213> ORGANISM: Artificial Sequence
89   <220> FEATURE:
90   <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
91   <220> FEATURE:
92   <221> NAME/KEY: VARIANT
93   <222> LOCATION: (1)
94   <223> OTHER INFORMATION: x = proline, leucine, glutamic acid, cysteine or
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*[handwritten: Asp is at position 5]*

*[handwritten: what about Xaa's at positions 2, 4, 8-9?]*

*[handwritten: what about Xaas at positions 2, 4, and 9?]*

*[handwritten margin: W--> at lines 54 and 83]*

1635

```
 95            glutamine
 96   <220> FEATURE:
 97   <221> NAME/KEY: VARIANT
 98   <222> LOCATION: (2)
 99   <223> OTHER INFORMATION: x = arginine, asparagine, alanine, threonine or
100          valine
101   <220> FEATURE:
102   <221> NAME/KEY: VARIANT
103   <222> LOCATION: (4)
104   <223> OTHER INFORMATION: X = methionine, isoleucine, threonine, arginine,
105          alanine or serine
106   <220> FEATURE:
107   <221> NAME/KEY: VARIANT
108   <222> LOCATION: (5)
109   <223> OTHER INFORMATION: X= arginine, histidine, glutamic acid, cysteine,
110          serine or preferably aspartic acid.
111   <220> FEATURE:
112   <221> NAME/KEY: VARIANT
113   <222> LOCATION: (6)
114   <223> OTHER INFORMATION: X = histidine, phenylalanine or preferably
115          tyrosine
116   <220> FEATURE:
117   <221> NAME/KEY: VARIANT
118   <222> LOCATION: (8)
119   <223> OTHER INFORMATION: X = glutamic acid, threonine, alanine,
120          phenylalanine or serine
121   <220> FEATURE:
122   <221> NAME/KEY: VARIANT
123   <222> LOCATION: (9)
124   <223> OTHER INFORMATION: X= glycine, glutamine, threonine, alanine or
125          aspartic acid
126   <220> FEATURE:
127   <221> NAME/KEY: VARIANT
128   <222> LOCATION: (10)
129   <223> OTHER INFORMATION: C = phenylalanine, glutamine or preferably leucine
130   <400> SEQUENCE: 5
131          Xaa Xaa Phe Xaa Xaa Xaa Trp Xaa Xaa Xaa
132           1               5                    10
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134   <211> LENGTH: 12
135   <212> TYPE: PRT
136   <213> ORGANISM: Artificial Sequence
137   <220> FEATURE:
138   <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
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140          Met Pro Arg Phe Met Asp Tyr Trp Gln Gly Leu Asn
141           1               5                    10
142   <210> SEQ ID NO 7
143   <211> LENGTH: 12
144   <212> TYPE: PRT
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146   <220> FEATURE:
147   <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
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149         Gln Pro Thr Phe Ser Asp Tyr Trp Lys Leu Leu Pro
150         1                5                10
151   <210> SEQ ID NO 8
152   <211> LENGTH: 15
153   <212> TYPE: PRT
154   <213> ORGANISM: Artificial Sequence
155   <220> FEATURE:
156   <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
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158         Pro Arg Pro Ala Leu Val Phe Ala Asp Thr Trp Gly Thr Leu Tyr
159         1                5                10                15
160   <210> SEQ ID NO 9
161   <211> LENGTH: 28
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163   <213> ORGANISM: Artificial Sequence
164   <220> FEATURE:
165   <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
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167         Met Pro Arg Phe Met Asp Tyr Trp Gln Gly Leu Asn Arg Gln Ile Lys
168         1                5                10                15
169         Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
170                     20                25
171   <210> SEQ ID NO 10
172   <211> LENGTH: 8
173   <212> TYPE: PRT
174   <213> ORGANISM: Artificial Sequence
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178   <221> NAME/KEY: VARIANT
179   <222> LOCATION: (2)
180   <223> OTHER INFORMATION: X = methionine, isoleucine, threonine, arginine,
181         alanine or serine, preferably methionine
182   <220> FEATURE:
183   <221> NAME/KEY: VARIANT
184   <222> LOCATION: (3)
185   <223> OTHER INFORMATION: X = arginine, histidine, glutamic acid, cysteine,
186         serine, or preferably aspartic acid.
187   <220> FEATURE:
188   <221> NAME/KEY: VARIANT
189   <222> LOCATION: (4)
190   <223> OTHER INFORMATION: X = histidine, phenylalanine, or preferably
191         tyrosine
192   <220> FEATURE:
193   <221> NAME/KEY: VARIANT
194   <222> LOCATION: (6)
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195    <223> OTHER INFORMATION: X = glutamic acid, threonine, alanine,
196          phenylalanine or serine, preferably glutamic acid
197    <220> FEATURE:
198    <221> NAME/KEY: VARIANT
199    <222> LOCATION: (7)
200    <223> OTHER INFORMATION: X = glycine, glutamine, threonine, alanine or
201          aspartic acid, preferably glycine.
202    <220> FEATURE:
203    <221> NAME/KEY: VARIANT
204    <222> LOCATION: (8)
205    <223> OTHER INFORMATION: X = phenylalanine, glutamine or preferably
206          leucine.
207    <400> SEQUENCE: 10
208          Phe Xaa Xaa Xaa Trp Xaa Xaa Xaa
209           1                   5
210    <210> SEQ ID NO 11
211    <211> LENGTH: 9
212    <212> TYPE: PRT
213    <213> ORGANISM: Artificial Sequence
214    <220> FEATURE:
215    <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
216    <220> FEATURE:
217    <221> NAME/KEY: VARIANT
218    <222> LOCATION: (1)
219    <223> OTHER INFORMATION: X = arginine, asparagine, alanine, threonine or
220          valive, particularly arginine.          → do you mean Valine?
221    <220> FEATURE:
222    <221> NAME/KEY: VARIANT
223    <222> LOCATION: (3)
224    <223> OTHER INFORMATION: X = methionine, isoleucine, threonine, arginine,
225          alanine or serine, preferably methionine
226    <220> FEATURE:
227    <221> NAME/KEY: VARIANT
228    <222> LOCATION: (4)
229    <223> OTHER INFORMATION: X = arginine, histidine, glutamic acid, cysteine,
230          serine or preferably aspartic acid.
231    <220> FEATURE:
232    <221> NAME/KEY: VARIANT                Xaa
233    <222> LOCATION: (5)
234    <223> OTHER INFORMATION: C = histidine, phenylalanine or preferably
235          tyrosine.
236    <220> FEATURE:
237    <221> NAME/KEY: VARIANT
238    <222> LOCATION: (7)
239    <223> OTHER INFORMATION: X = glutamic acid, threonine, alanine,
240          phenylalanine or serine, preferably glutamic acid.
241    <220> FEATURE:
242    <221> NAME/KEY: VARIANT
243    <222> LOCATION: (8)
       <223> OTHER INFORMATION: X = glycine, glutamine, threonine, alanine or

| Line | ? | Error/Warning | Original Text |
|------|---|---------------|---------------|
| 34 | W | "N" or "Xaa" used: Feature required | Phe Xaa Xaa Leu Trp |
| 54 | W | "N" or "Xaa" used: Feature required | Pro Xaa Phe Xaa Asp Thr Trp Xaa Xaa Leu |
| 83 | W | "N" or "Xaa" used: Feature required | Xaa Xaa Phe Xaa Xaa Xaa Trp Xaa Xaa Xaa |
| 131 | W | "N" or "Xaa" used: Feature required | Xaa Xaa Phe Xaa Xaa Xaa Trp Xaa Xaa Xaa |
| 208 | W | "N" or "Xaa" used: Feature required | Phe Xaa Xaa Xaa Trp Xaa Xaa Xaa |
| 252 | W | "N" or "Xaa" used: Feature required | Xaa Phe Xaa Xaa Xaa Trp Xaa Xaa Xaa |
| 323 | W | "N" or "Xaa" used: Feature required | Xaa Gly Pro Ala Phe Thr His Tyr Trp Ala T |
| 340 | W | "N" or "Xaa" used: Feature required | Xaa Pro Arg Phe Met Asp Tyr Trp Glu Gly L |
| 357 | W | "N" or "Xaa" used: Feature required | Xaa Pro Thr Phe Ser Asp Tyr Trp Lys Leu L |
| 374 | W | "N" or "Xaa" used: Feature required | Xaa Ala Phe Thr His Tyr Trp Xaa |
| 391 | W | "N" or "Xaa" used: Feature required | Xaa Thr Phe Ser Asp Tyr Trp Xaa |
| 408 | W | "N" or "Xaa" used: Feature required | Xaa Arg Phe Met Asp Tyr Trp Xaa |
| 425 | W | "N" or "Xaa" used: Feature required | Xaa Glu Thr Phe Ser Asp Leu Trp Lys Leu L |
| 442 | W | "N" or "Xaa" used: Feature required | Xaa Pro Thr Phe Ser Asp Leu Trp Lys Leu L |
| 459 | W | "N" or "Xaa" used: Feature required | Xaa Glu Thr Phe Ser Asp Tyr Trp Lys Leu L |
| 476 | W | "N" or "Xaa" used: Feature required | Xaa Gln Asn Phe Ile Asp Tyr Trp Thr Gln G |
| 493 | W | "N" or "Xaa" used: Feature required | Xaa Asp Arg Ala Pro Thr Phe Arg Asp His T |
| 510 | W | "N" or "Xaa" used: Feature required | Xaa Arg Pro Ala Leu Val Phe Ala Asp Tyr T |
| 527 | W | "N" or "Xaa" used: Feature required | Xaa Ala Phe Ser Arg Phe Trp Ser Asp Leu S |
| 540 | W | "N" or "Xaa" used: Feature required | Thr Gly Pro Ala Phe Thr His Tyr Trp Ala T |
| 553 | W | "N" or "Xaa" used: Feature required | Met Pro Arg Phe Met Asp Tyr Trp Glu Gly L |
| 570 | W | "N" or "Xaa" used: Feature required | Xaa Gly Gln Pro Thr Phe Ser Asp Tyr Trp L |
| 587 | W | "N" or "Xaa" used: Feature required | Xaa Gly Gln Pro Thr Phe Ser Asp Tyr Trp L |
| 604 | W | "N" or "Xaa" used: Feature required | Xaa Gly Pro Thr Phe Ser Asp Leu Trp Xaa |
| 621 | W | "N" or "Xaa" used: Feature required | Xaa Gly Pro Thr Phe Ser Asp Leu Trp Xaa |
| 638 | W | "N" or "Xaa" used: Feature required | Xaa Pro Thr Phe Ser Asp Leu Trp Xaa |
| 655 | W | "N" or "Xaa" used: Feature required | Xaa Pro Thr Phe Ser Asp Leu Trp Xaa |
| 672 | W | "N" or "Xaa" used: Feature required | Xaa Gly Ser Gly Gln Glu Thr Phe Ser Asp L |
| 689 | W | "N" or "Xaa" used: Feature required | Xaa Gly Ser Gly Gln Pro Thr Phe Ser Asp L |
| 706 | W | "N" or "Xaa" used: Feature required | Xaa Gly Ser Gly Gln Glu Thr Phe Ser Asp T |
| 723 | W | "N" or "Xaa" used: Feature required | Xaa Met Pro Arg Phe Met Asp Tyr Trp Glu G |
| 725 | W | "N" or "Xaa" used: Feature required | Lys Ile Trp Phe Gln Asn Arg Arg Met Lys T |
| 759 | W | "N" or "Xaa" used: Feature required | Xaa Ala Val Ala Leu Leu Pro Ala Val Leu L |
| 761 | W | "N" or "Xaa" used: Feature required | Ala Met Pro Arg Phe Met Asp Tyr Trp Glu G |
| 787 | W | "N" or "Xaa" used: Feature required | Xaa Thr Phe Ser Asp Tyr Trp Xaa |
| 804 | W | "N" or "Xaa" used: Feature required | Xaa Thr Phe Ser Asp Tyr Trp Xaa |
| 821 | W | "N" or "Xaa" used: Feature required | Xaa Ala Phe Thr His Tyr Trp Xaa |
| 838 | W | "N" or "Xaa" used: Feature required | Xaa Ala Phe Thr His Tyr Trp Xaa |
| 855 | W | "N" or "Xaa" used: Feature required | Xaa Arg Phe Met Asp Tyr Trp Xaa |
| 872 | W | "N" or "Xaa" used: Feature required | Xaa Arg Phe Met Asp Tyr Trp Xaa |
| 889 | W | "N" or "Xaa" used: Feature required | Xaa Thr Phe Ser Asp Tyr Trp Xaa |
| 914 | W | "N" or "Xaa" used: Feature required | Xaa Arg Phe Met Asp Tyr Trp Xaa |
| 939 | W | "N" or "Xaa" used: Feature required | Xaa Met Xaa Tyr Trp Xaa Gly Xaa |
| 964 | W | "N" or "Xaa" used: Feature required | Xaa Phe Met Xaa Tyr Trp Xaa Gly Xaa |
| 989 | W | "N" or "Xaa" used: Feature required | Xaa Phe Met Xaa Tyr Trp Glu Xaa Xaa |
| 1018 | W | "N" or "Xaa" used: Feature required | Xaa Met Xaa Tyr Trp Xaa Xaa Xaa |
| 1043 | W | "N" or "Xaa" used: Feature required | Xaa Met Xaa Tyr Trp Gln Xaa Xaa |
| 1060 | W | "N" or "Xaa" used: Feature required | Xaa Phe Met Asp Tyr Trp Glu Gly Xaa |
| 1077 | W | "N" or "Xaa" used: Feature required | Xaa Met Asp Tyr Trp Glu Gly Xaa |
| 1098 | W | "N" or "Xaa" used: Feature required | Xaa Met Xaa Tyr Trp Glu Gly Xaa |

| Line | ? | Error/Warning | Original Text |
|------|---|---------------|---------------|
| 1119 | W | "N" or "Xaa" used: Feature required | Xaa Met Asp Tyr Trp Xaa Gly Xaa |
| 1216 | W | "N" or "Xaa" used: Feature required | Xaa Gly Ser Gly Glu Pro Pro Leu Ser Gln G |